

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Docket No.:

2879-US

prication of.

Charles Maliszewski, Richard Gayle III, Virginia Lee Price and Steven D. Gimpel

Group Art Unit:

1644

Serial No: 09/835,147

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Examiner:

A. Decloux

Filed:

For:

April 13, 2001

INHIBITORS OF PLATELET ACTIVATION AND RECRUITMENT

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INFORMATION DISCLOSURE STATEMENT

JUN 09 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Dear Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and §1.98, Applicants submit two copies of Form PTO-1449, and copies of cited references.

Please acknowledge receipt of this Information Disclosure Statement, and make the cited documents of record in the above identified application. Applicants believe that this Information Disclosure Statement is being submitted before mailing of a first Office Action on the merits, and that no fee is due with the filing of this paper. If a fee is due, the Commissioner is authorized to charge the fee to Deposit Account No. 09-0089.

Immunex Corporation Law Department 51 University Street Seattle, Washington 98101 Telephone: (206) 587-0430 Respectfully submitted,

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Julie K. Smith, Ph.D. Registration No. 38,619

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Date:

Signed

Camilla C. Edwards

Third 0 6 5003 Sheet 1 of 5 ATTY. DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE Form P PATENT AND TRADEMARK OFFICE 2879-US 09/835,147 APPLICANT INFORMATION DISCLOSURE CITATION Charles Maliszewski et al. GROUP FILING DATE 1644 (Use several sheets if necessary) April 13, 2001 **U.S. PATENT DOCUMENTS** CLASS SUBCLASS FILING DATE DOCUMENT DATE **EXAMINER** NAME IF APPROPRIATE NUMBER 12/17/91 Curtis et al. 5,073,627 Gepner-Puszkin 5,378,601 1/3/95 4/9/96 Seed et al. 5,506,126 5,798,241 8/25/98 Beaudoin et al TECH CENTER 1600/2900 6,287,837 9/11/01 Beaudoin et al. FOREIGN PATENT DOCUMENTS CLASS SUBCLASS DOCUMENT DATE COUNTRY TRANSLATION YES NUMBER **PCT** WO 96/32471 10/17/96 PCT WO 96/30532 10/3/96 **PCT** 4/27/00 WO 00/23094 WO 01/11949 2/22/01 **PCT** EP 0 416 673 A1 EP 3/13/91 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Chadwick, B. P. and Frischauf, A., "The CD39-like gene family: identification of three new human members (CD39L2, CD39L3, and CD39L4), their murine homologues, and a member of the gene family from drosophila melanogaster," Genomics, U.S Academic Press, San Diego Vol. 50(3): 357-367, 1998. Choudhri, T. et al., "Reduced microvascular thrombosis and improved outcome in acute murine stroke by inhibiting GP IIb /IIIa receptor-mediated platelet aggregation," J. Clin. Invest. 102(7): 1301-1310, 1998. Colman, R. et al., "Inhibition of collagen-induced platelet activation by 5'-pfluorosulfonylbenzoyl adenosine: evidence for an adenosine diphosphate requirement and synergistic influence of prostaglandin endoperoxides, "Blood 68(2): 565-570, 1986. Connolly, E. et al., "Cerebral protection in homozygous null ICAM-1 mice after middle

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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cerebral artery occlusion," J. Clin Invest 97(1): 209-216, 1996.

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	Kansas, G. and Tedder, T., "Transmembrane signals generated through MHC class II, CD19, CD20, CD39, and CD40 antigens induce LFA-1-dependent and independent									
	adhesion in human B cells through a tyrosine kinase-dependent pathway," J. Immunol. 147									
	(12): 4094-4102, 1991. Malierayski, C. et al. "The CD30 lymphoid cell activation antigen." I. Immunol. 153:									
	Maliszewski, C. et al., "The CD39 lymphoid cell activation antigen," <i>J. Immunol.</i> 153: 3574-3583, 1994.									
	Marcus, A. and Safier, L., "Thromboregulation: multicellular modulation of platelet									
		reactivity in hemostasis and thrombosis," FASEB J. 7: 516-522, 1993.								
		Marcus, A. et al., "The endothelial cell ecto-ADPase responsible for inhibition of platelet								
	Tunction is C	function is CD39," J. Clin. Invest. 99(6): 1351-1360, 1997.								
	Marcus, A. et	Marcus, A. et al., "Thromboregulatory activity of cultured human endothelial cells:								
		subcellular localization and solubilization of a membrane ADPase," Clin. Res. 40: 226A								
	(abstract), 19	92.								
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	Marcus, A. et ADPase," J. O			function by an asp	irin-insens	sitive endo	thelial cell	
	ADFase, J. C	.im. mvesi. o	0. 1090-109	0, 1991.				
	Mulero, J. et a	al., "CD39-L4	is a secrete	d human apyrase, s	pecific for	the hydro	lysis of	
				m. 274(29): 20064-				
	Plesner, L., "I	ecto-ATPases	: Identities a	and functions," Int.	Rev. Cytol	<i>l. 158</i> : 141	-214, 1995.	
	Rector, E. et a	ıl., "Detectior	and charact	erization of monoc	lonal antib	odies spe	cific to IgE	
	receptors on h	uman lymph	ocytes by flo	w cytometry," Imm	unology 5	<i>5</i> : 481-488	3, 1985.	
		et al., "A sequ		od based on real-ti				
			ne structure :	and chromosome lo	cation of	mouse Cd.	39 coding	
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